A: Datasheet

Algorithm: gorilla_0

Developer: Gorilla Technology

Submission Date: 2018_02_01

Template size: 8300 bytes

Template time (2.5 percentile): 401 msec

Template time (median): 426 msec

Template time (97.5 percentile): 463 msec

Investigation:

Immigration visa–border ranking 142 (out of 168) –– FNIR(1600000, 0, 1) = 0.3232 vs. lowest 0.0013 from visionlabs_010
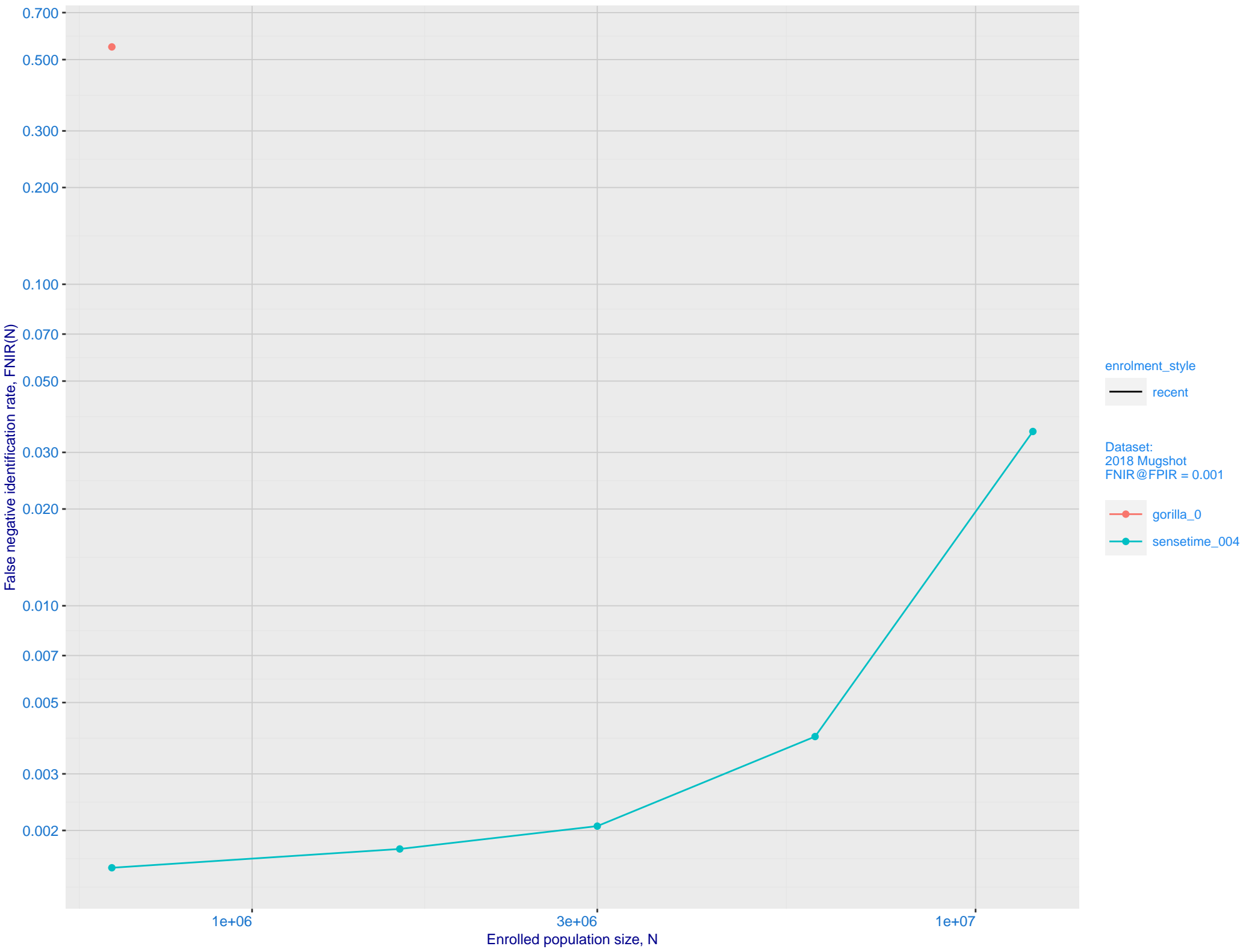
Immigration visa–kiosk ranking 146 (out of 165) –– FNIR(1600000, 0, 1) = 0.6668 vs. lowest 0.0568 from cloudwalk_hr_000
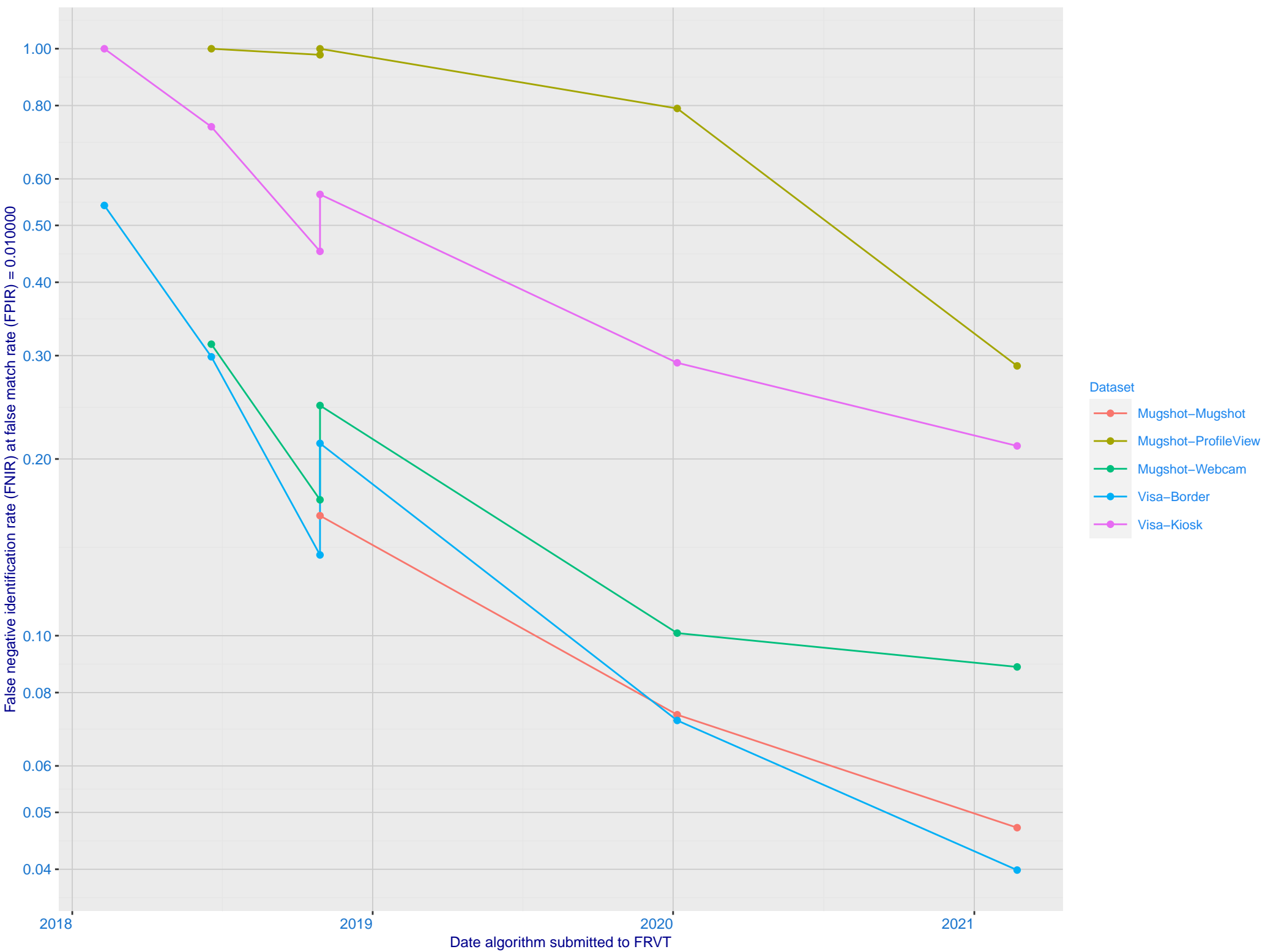
Identification:

Immigration visa–border ranking 135 (out of 167) –– FNIR(1600000, T, L+1) = 0.7373, FPIR=0.001000 vs. lowest 0.0047 from idemia_008

Immigration visa–kiosk ranking 154 (out of 162) –– FNIR(1600000, T, L+1) = 1.0000, FPIR=0.001000 vs. lowest 0.0996 from cloudwalk_hr_000
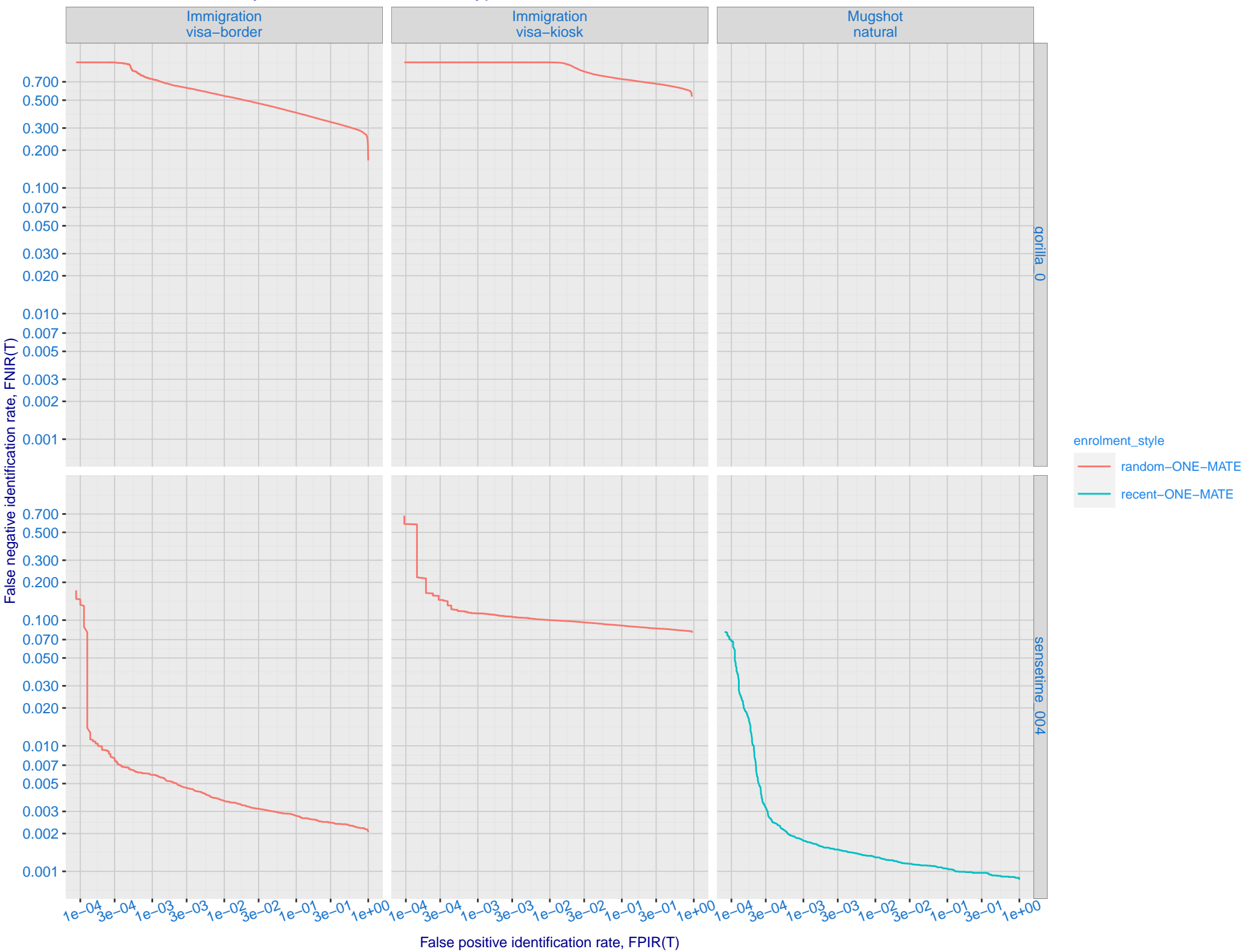
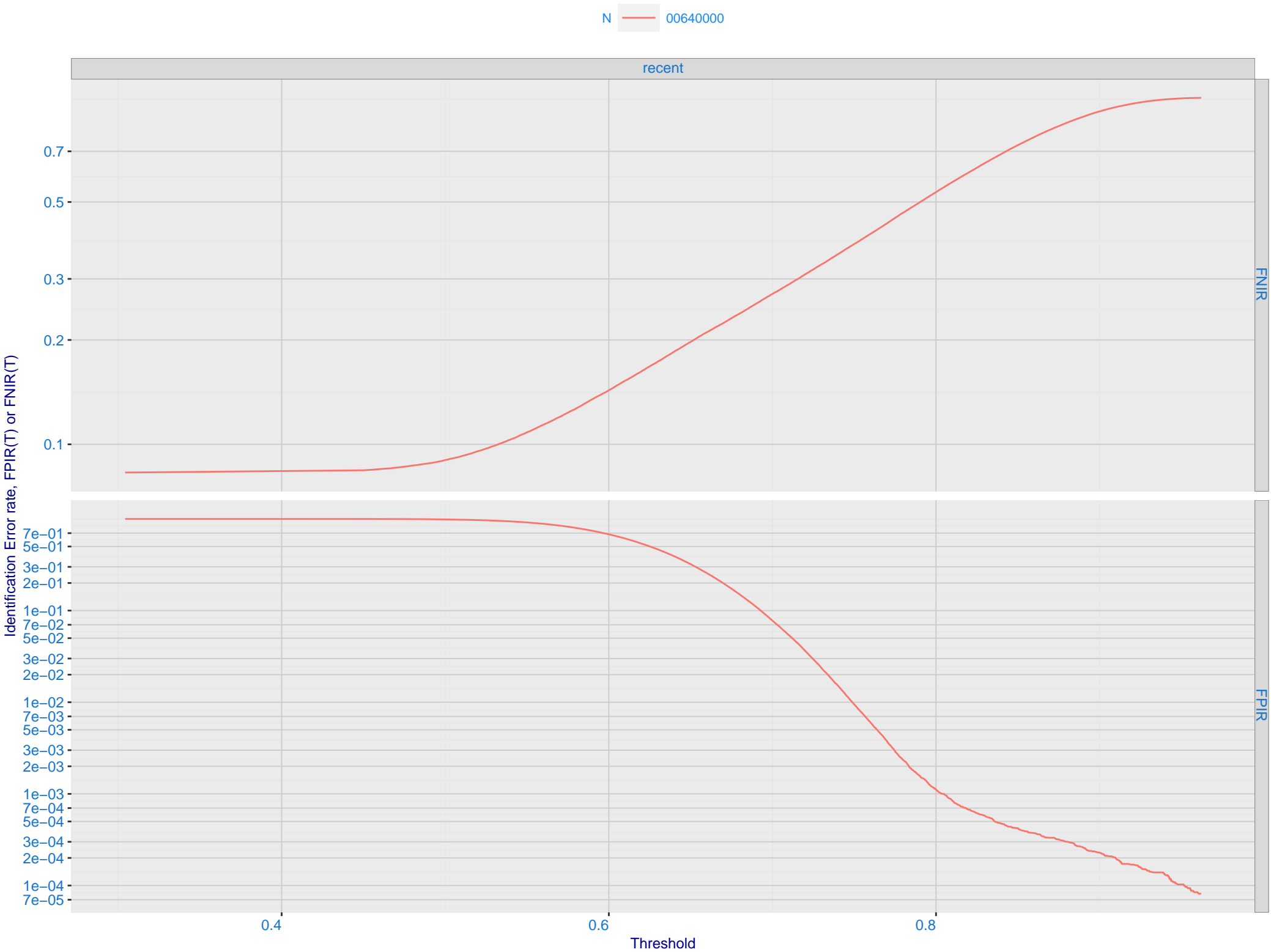B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)

C: Evolution of accuracy for GORILLA algorithms on three datasets 2018 – present

Dataset
- Mugshot–Mugshot
- Mugshot–ProfileView
- Mugshot–Webcam
- Visa–Border
- Visa–Kiosk

False negative identification rate (FNIR) at false match rate (FPIR) = 0.010000

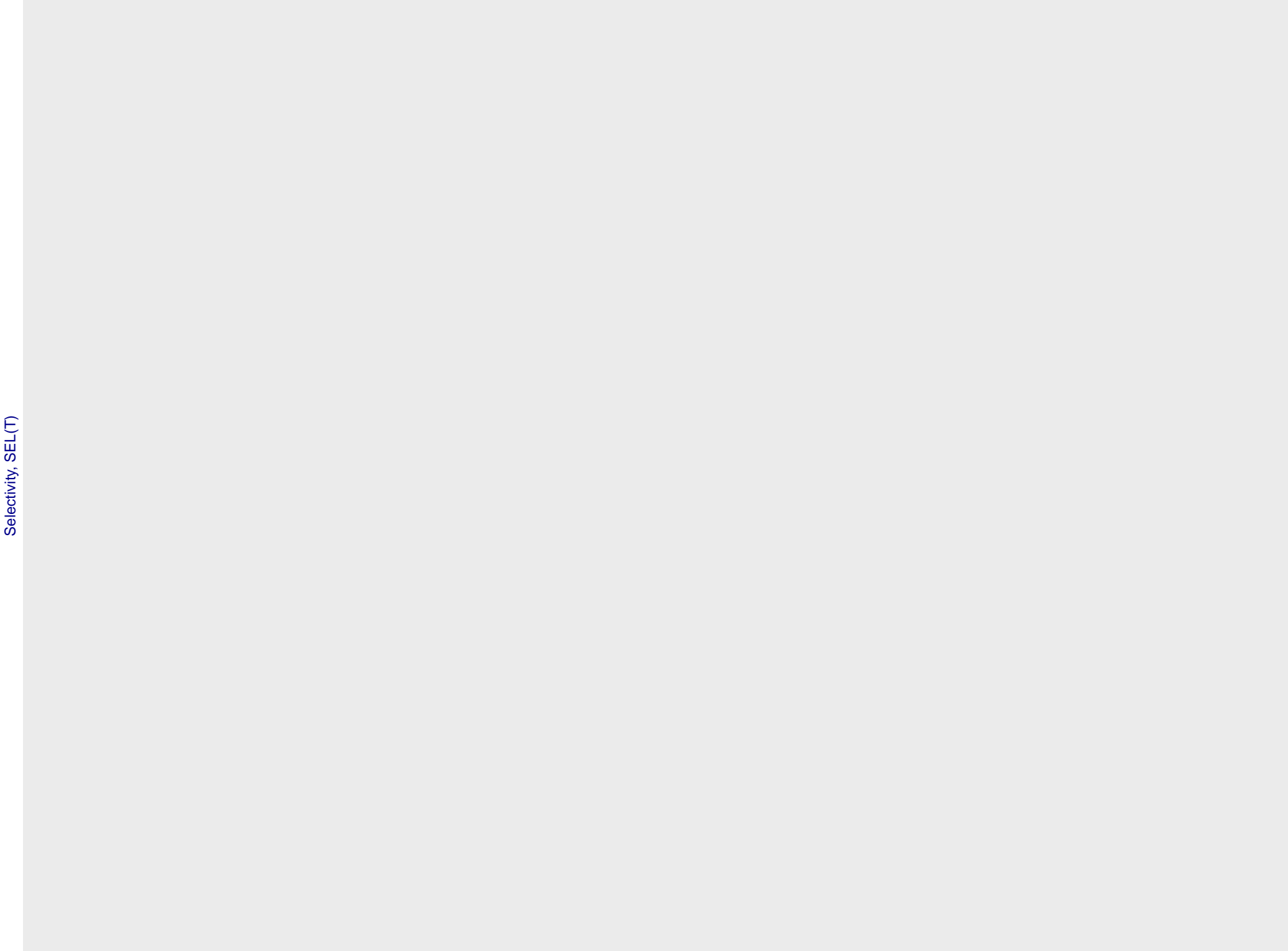Date algorithm submitted to FRVT

D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images
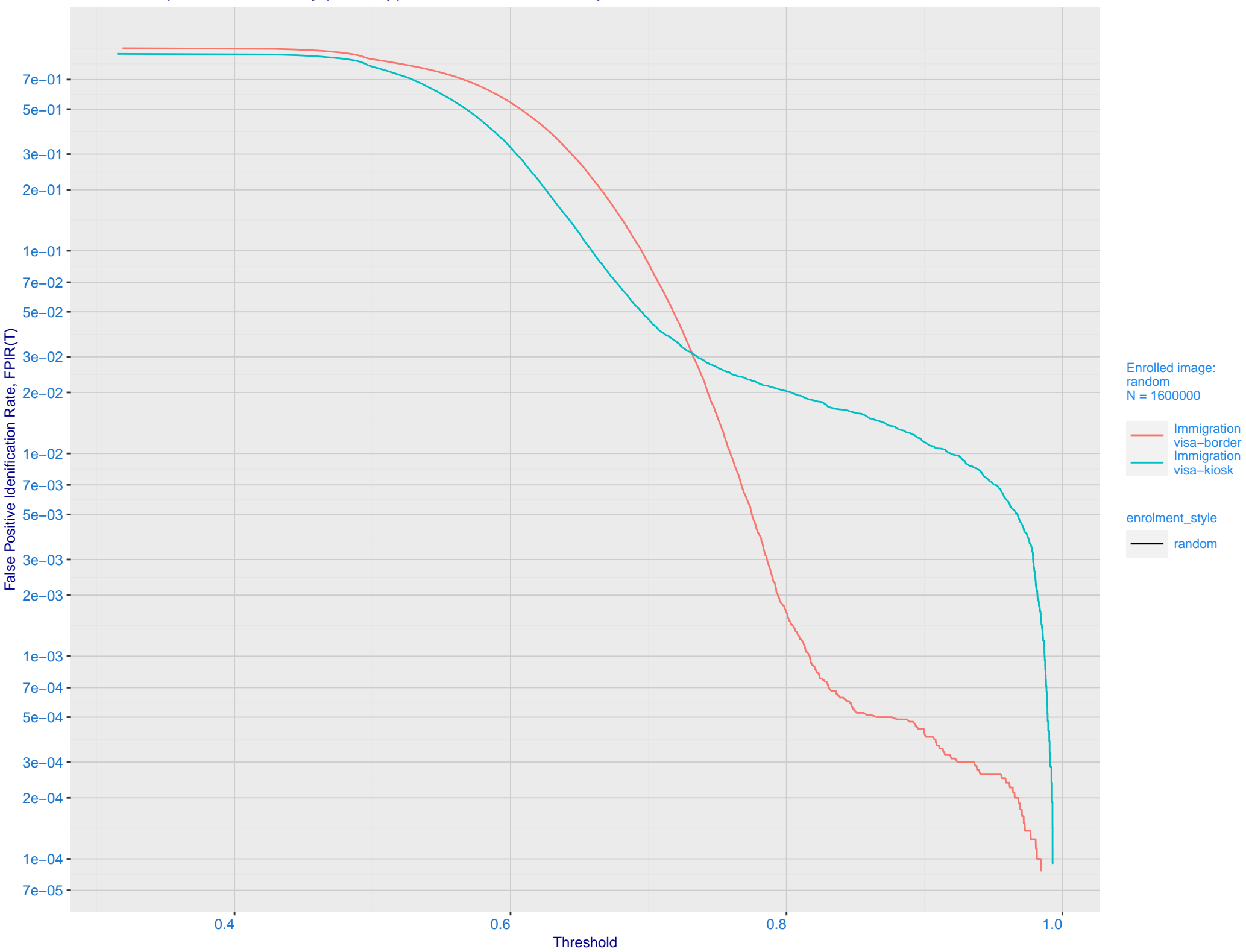
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate
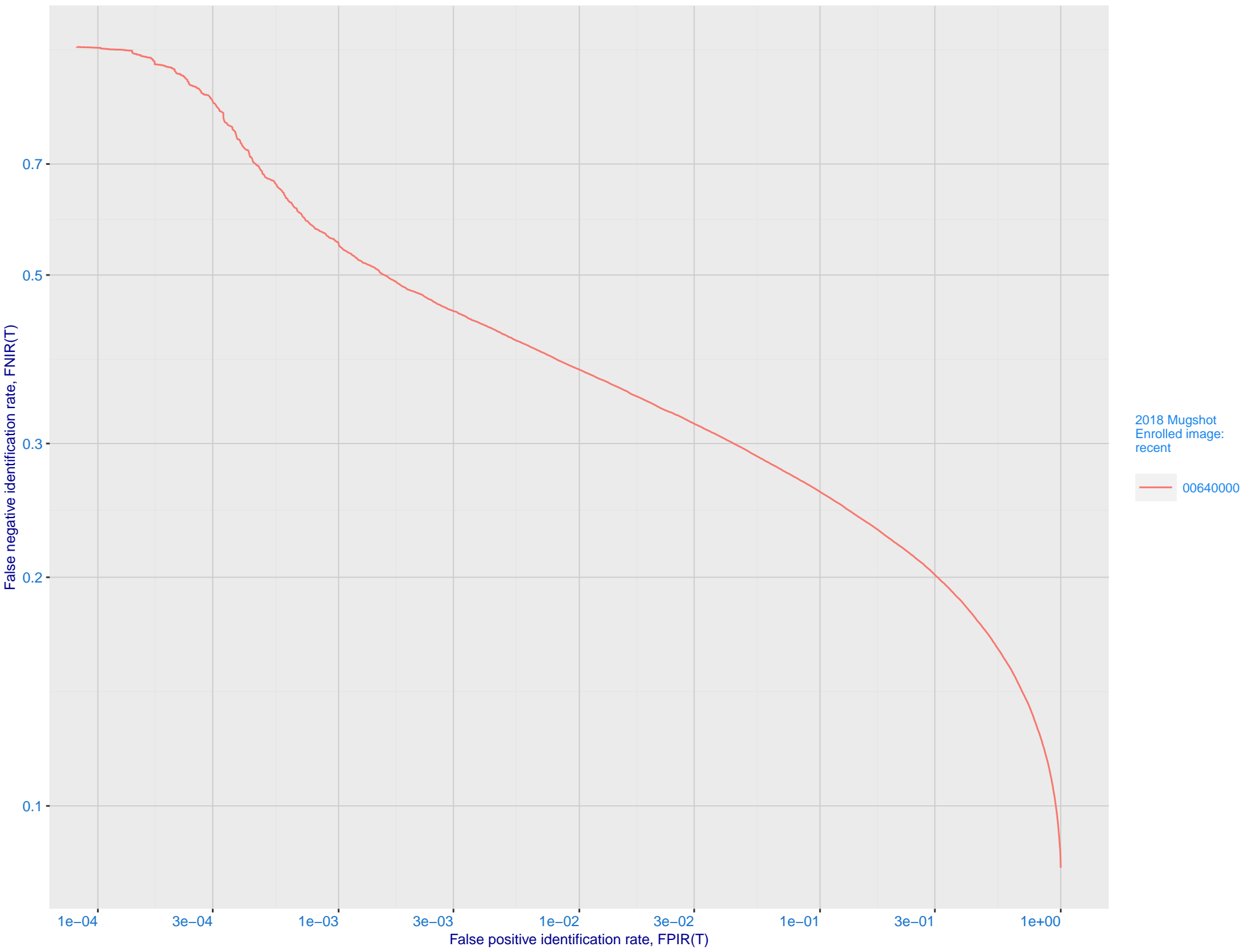
Selectivity, SEL(T)

False Positive Idenification Rate, FPIR(T)

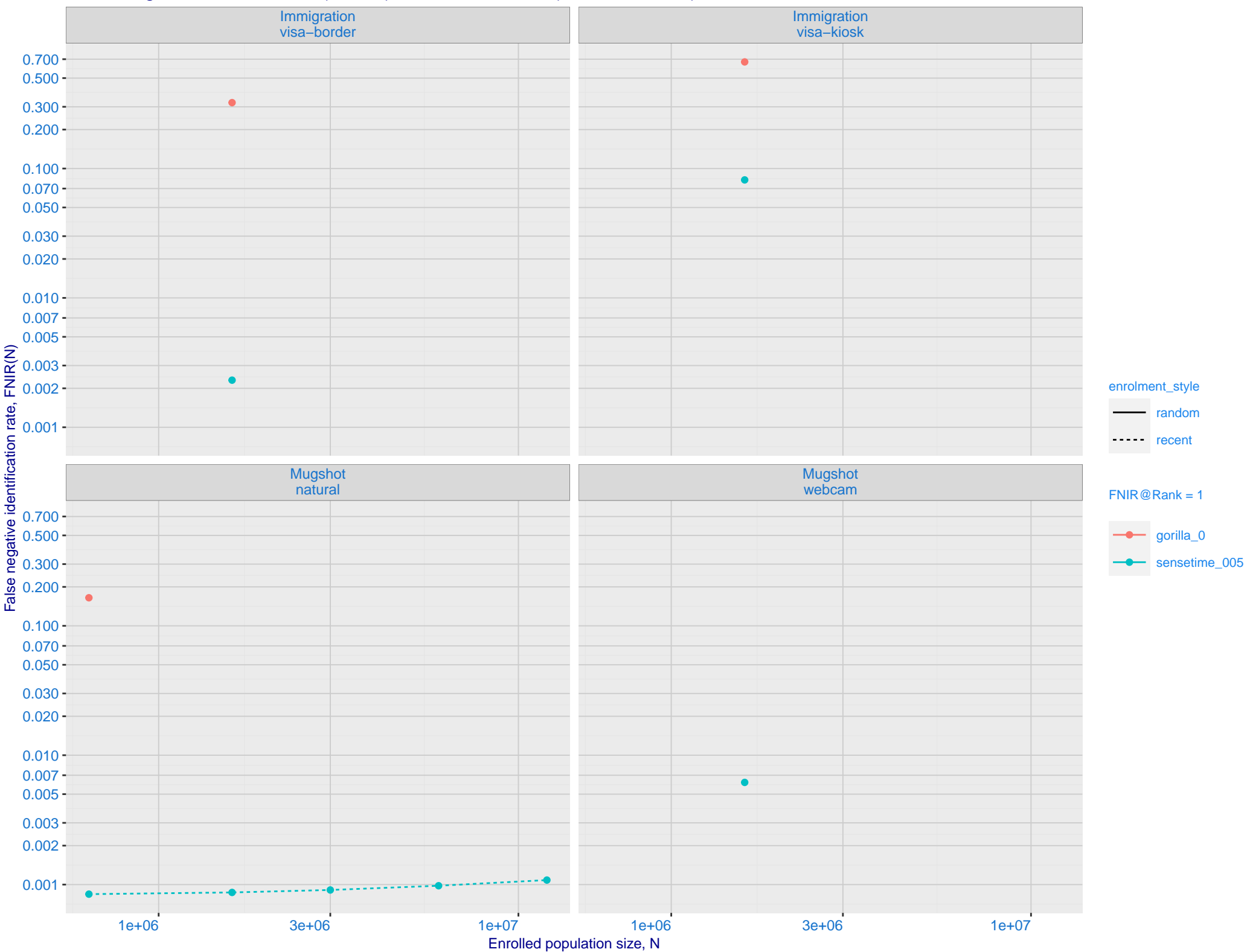G: FPIR dependence on T by probe type for N = 1600000 subjects

J: DET for Mugshot natural images and various N. Links connect points of equal threshold.
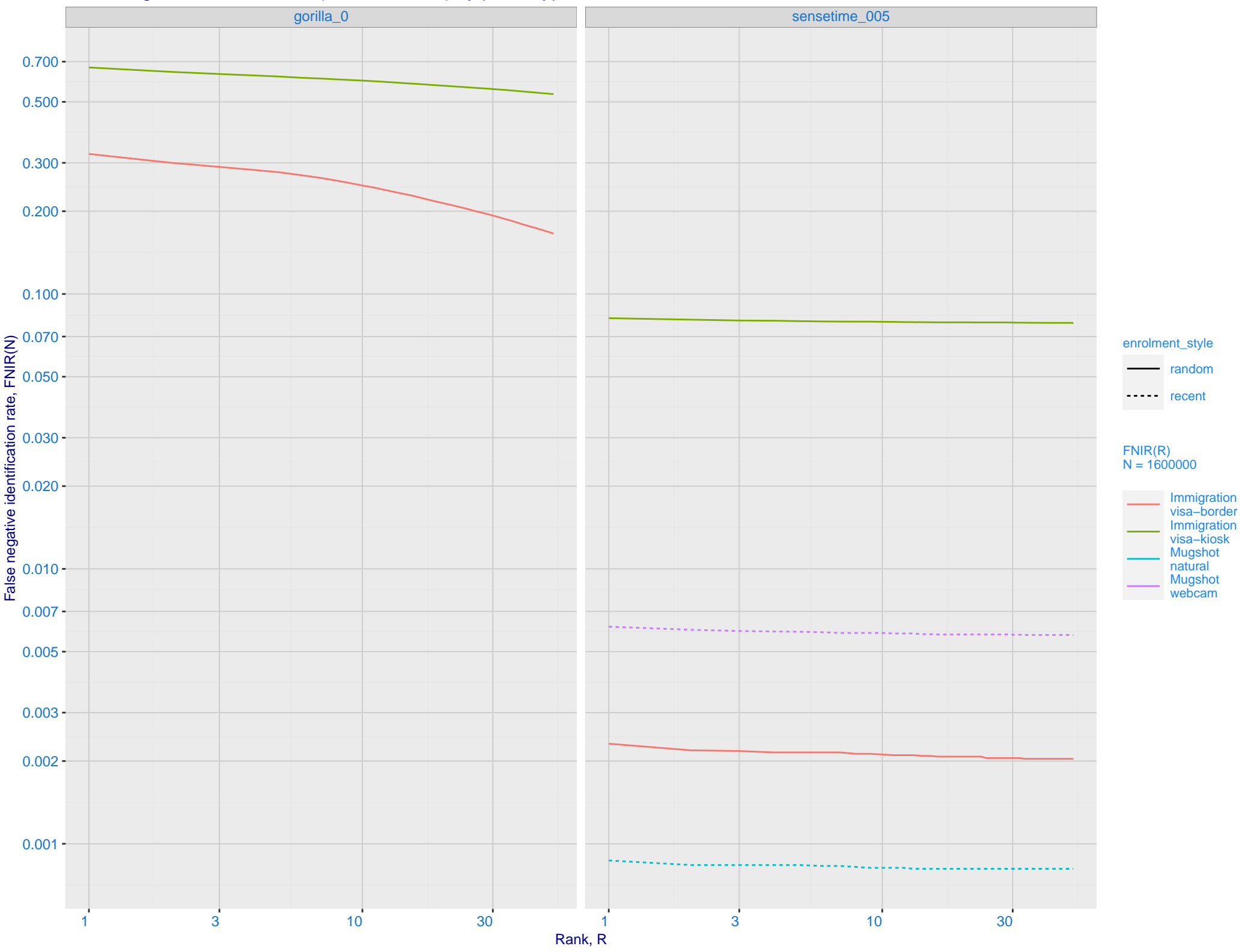
False positive identification rate, FPIR(T)

False negative identification rate, FNIR(T)

2018 Mugshot
Enrolled image:
recent

00640000

K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)

L: Investigational mode: FNIR(1600000, R, 0) by probe type

M: Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power−law models are fit to the first two (N,T) observations
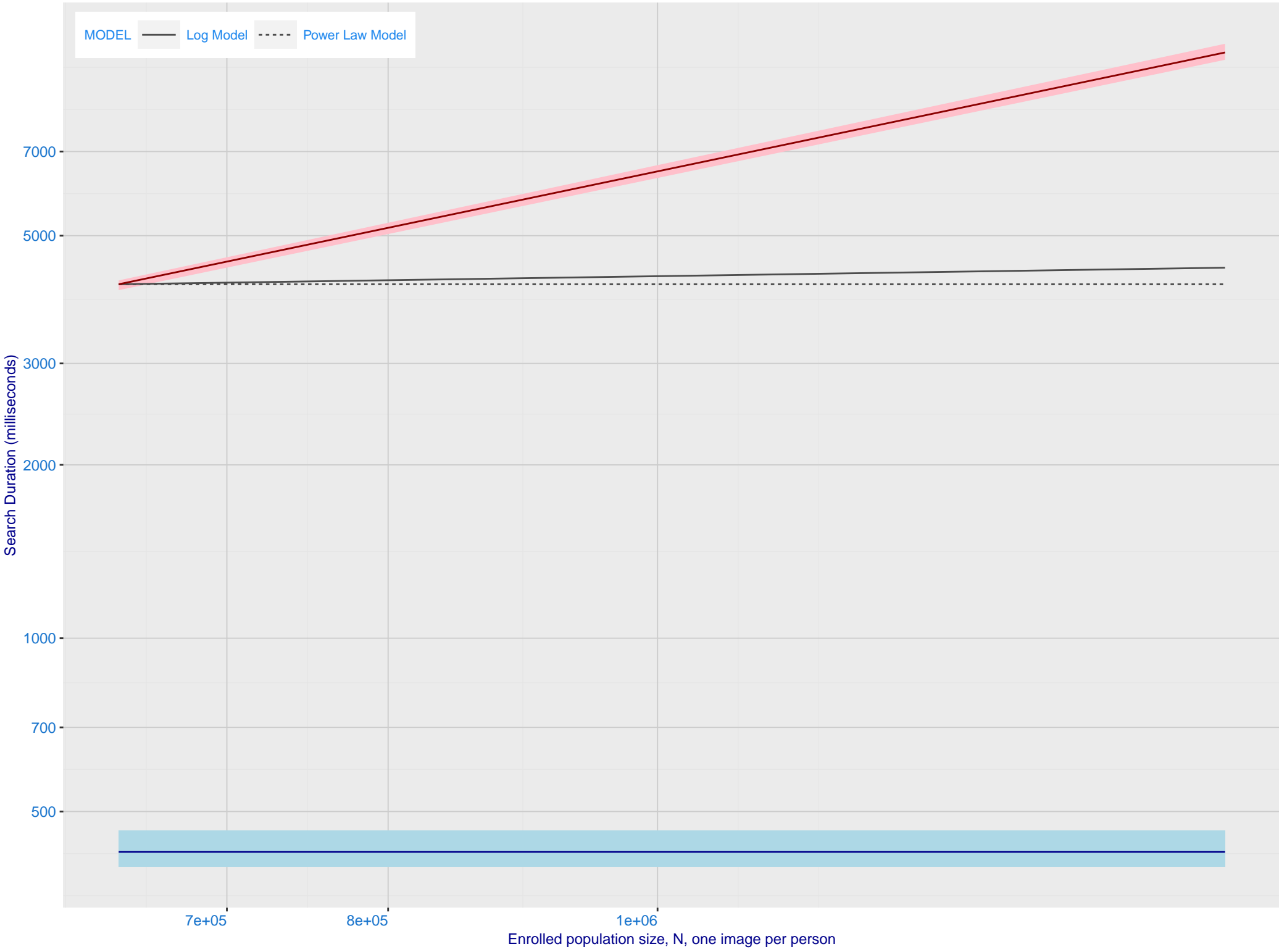
Q: Identification FNIR(N, T, L+1) and Investigational FNIR(N, 0, R) under ageing